SIEMENS

Data sheet US2:14DUB820C



Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLRelay amp range 0.75-3.4a, 220 240/440 480VAC 60HZ coil, Non-combination type, Enclosure type 12, Dust/drip proof for indoors, Extra-wide enclosure

Figure similar

product brand name design of the product special product feature Class 14
Full-voltage non-reversing motor starter
ESP200 overload relay; Dual voltage coil

General technical data	
weight [lb]	15 lb
Height x Width x Depth [in]	13 × 13 × 5 in
touch protection against electrical shock	(NA for enclosed products)
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
during storage	-22 +149 °F
during operation	-4 +104 °F
ambient temperature	
 during storage 	-30 +65 °C
during operation	-20 +40 °C
country of origin	USA
Horsenower ratings	

Horsepower ratings	
yielded mechanical performance [hp] for 3-phase AC motor	
at 200/208 V rated value	0.5 hp
at 220/230 V rated value	0.75 hp
at 460/480 V rated value	1.5 hp
at 575/600 V rated value	2 hp
Contactor	
size of contactor	NEMA controller size 1
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	27 A
mechanical service life (operating cycles) of the main contacts typical	10000000
Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)
Coil	
type of voltage of the control supply voltage	AC

control supply voltage

• at AC at 60 Hz rated value

holding power at AC minimum

8.6 W

220 ... 480 V

apparent pick-up power of magnet coil at AC 218 VA apparent holding power of magnet coil at AC 25 VA operating range factor control supply voltage rated value 0.85 ... 1.1 of magnet coil percental drop-out voltage of magnet coil related to the 50 % input voltage ON-delay time 19 ... 29 ms OFF-delay time 10 ... 24 ms Overload relay product function · overload protection Yes • phase failure detection Yes Yes asymmetry detection Yes • ground fault detection Yes • test function external reset Yes reset function Manual, automatic and remote trip class CLASS 5 / 10 / 20 (factory set) / 30 adjustable current response value current of the current-0.75 ... 3.4 A dependent overload release 3 s tripping time at phase-loss maximum relative repeat accuracy 1 % product feature protective coating on printed-circuit board Yes number of NC contacts of auxiliary contacts of overload 1 number of NO contacts of auxiliary contacts of overload relay operational current of auxiliary contacts of overload relay at AC at 600 V 5 A at DC at 250 V contact rating of auxiliary contacts of overload relay 5A@600VAC (B600), 1A@250VDC (R300) according to UL insulation voltage (Ui) • with single-phase operation at AC rated value 600 V • with multi-phase operation at AC rated value 300 V **Enclosure** degree of protection NEMA rating 12 design of the housing Extra-wide design of the housing Dust tight and drip proof for indoors Mounting/wiring mounting position Vertical fastening method Surface mounting and installation type of electrical connection for supply voltage line-side Screw-type terminals tightening torque [lbf·in] for supply 35 ... 35 lbf·in type of connectable conductor cross-sections at line-side 1x(14 - 2 AWG) at AWG cables single or multi-stranded temperature of the conductor for supply maximum 75 °C permissible AL or CU material of the conductor for supply type of electrical connection for load-side outgoing feeder Screw-type terminals 20 ... 24 lbf·in tightening torque [lbf·in] for load-side outgoing feeder type of connectable conductor cross-sections at AWG 2 x (14 - 10 AWG) cables for load-side outgoing feeder single or multistranded temperature of the conductor for load-side outgoing feeder 75 °C maximum permissible CU material of the conductor for load-side outgoing feeder type of electrical connection of magnet coil screw-type terminals tightening torque [lbf·in] at magnet coil 5 ... 12 lbf·in type of connectable conductor cross-sections of magnet 2 x (16 - 12 AWG) coil at AWG cables single or multi-stranded temperature of the conductor at magnet coil maximum 75 °C permissible material of the conductor at magnet coil CU

type of electrical connection for auxiliary contacts

tightening torque [lbf·in] at contactor for auxiliary contacts

screw-type terminals

10 ... 15 lbf·in

type of connectable conductor cross-sections at contactor 1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG) at AWG cables for auxiliary contacts single or multistranded 75 °C temperature of the conductor at contactor for auxiliary contacts maximum permissible material of the conductor at contactor for auxiliary contacts CU type of electrical connection at overload relay for auxiliary screw-type terminals contacts tightening torque [lbf·in] at overload relay for auxiliary 7 ... 10 lbf·in contacts 2 x (20 - 14 AWG) type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multitemperature of the conductor at overload relay for auxiliary 75 °C contacts maximum permissible material of the conductor at overload relay for auxiliary CU contacts

Short-circuit current rating

design of the fuse link for short-circuit protection of the main circuit required

design of the short-circuit trip

maximum short-circuit current breaking capacity (Icu)

• at 240 V

• at 480 V

• at 600 V

certificate of suitability

10kA@600V (Class H or K); 100kA@600V (Class R or J)

Thermal magnetic circuit breaker

14 kA

10 kA

NEMA ICS 2; UL 508; CSA 22.2, No.14

Further information

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:14DUB820C

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

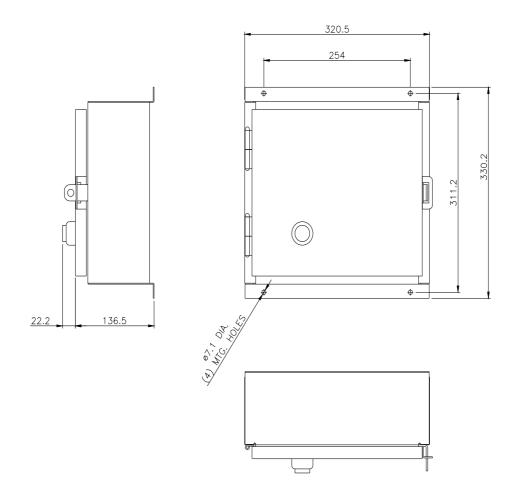
https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB820C

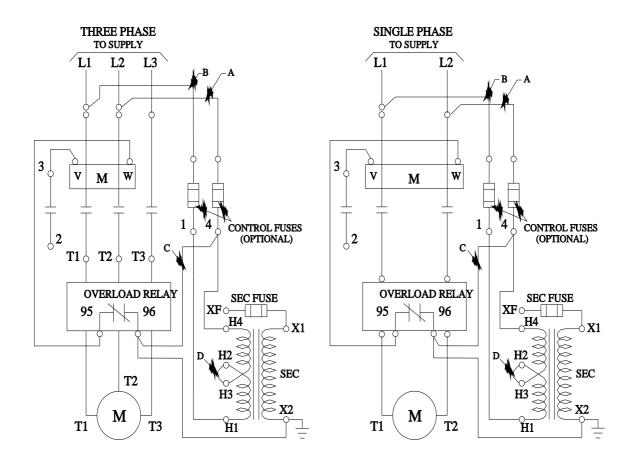
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:14DUB820C&lang=en

Certificates/approvals

https://support.industry.siemens.com/cs/US/en/ps/US2:14DUB820C/certificate





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